

IN THE CLAIMS

Claim 1 (Currently Amended): A solid composite polymer electrolyte comprising:

a general amorphous branched polymer being polyacrylonitrile, said solid composite polymer electrolyte being 41 to 70% by weight of a general amorphous branched polymer, 27 to 50% by weight of an amphoteric metal salt, and 3 to 9% by weight of an amphoteric Lewis acid-base ceramic filler having recurrent units, each of which includes a backbone chain selected from a group consisting of a -P=N- group and a -C-C- group, and at least a side chain linked to said backbone chain and containing at least one coordination potential atom selected from a group consisting of an alkoxy group and a C≡N group;

wherein said an amphoteric metal salt is a lithium salt such as lithium perchlorate dispersed in said branched polymer and forming Lewis acid-base interactions with said side chains; and

said an amphoteric Lewis acid-base ceramic filler is made from a material selected from a group consisting of α -Al₂O₃ and TiO₂, dispersed in said branched polymer and forming Lewis acid-base interactions with said side chains and said metal salt.

Claims 2-12 (Canceled).

Claim 13 (Currently Amended): The solid composite polymer electrolyte of Claim ~~12~~ 1, further comprising 47 to 60% by weight of polyacrylonitrile, 35 to 45% by weight of lithium perchlorate, and 5 to 8% by weight of said ceramic filler.

Claim 14 (Cancelled).